

Work Order ID 128204

Tuesday, January 13, 2015 9:05:22 AM

128204

Page 1

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: AS350 Cable Cutters
 Start Date: 1/13/2015 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 1/13/2015 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: MLJ Date: 1501-13 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
 Run Start ***NR1***
 Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

1x

DAS
46
9-89

FEB 27 2015

FEB 23 2015

DAS
28
9-89

1x

DAS
46
9-89

FEB 27 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID 128204

Tuesday, January 13, 2015 9:05:22 AM

128204

Page 2

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: AS350 Cable Cutters
 Start Date: 1/13/2015 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 1/13/2015 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130	Packaging					(1x)	DAS 46		FEB 27 2015
Packaging	Memo	0.00					9-89		
Packaging	Identify and pack for shipping as per PPP 646.4001 Location: _____ * Sold								
140									
140	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

mw 1502-27
(Signature) 15.227

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

Picklist Print

Wednesday, January 14, 2015 9:55:51 AM

Page 1

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.0112		Manufactured	No				Each	241.0000		2			DAS 06 9-89
647 0112	DAS 46 9-89								**				
Strut Bracket													
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				DAS 28 9-89
				CCK109			241						
				112215			62			2			
				122245			35						
				122871			52						
				M130388			92						
647.7703		Manufactured	No				Each	0.0000		2			DAS 06 9-89
647 7703	DAS 46 9-89								**				
Strut Assembly										7-28211			DAS 06 9-89
646.3301		Manufactured	No				Each	10.0000		1			DAS 28 9-89
646 3301	DAS 46 9-89								**				
Upper Cutter Assy													
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				CCK042			2						DAS 06 9-89
				124729			2						
				CCK046			8						
				120672			2						DAS 28 9-89
				122966			4			1			
				124258			2						

FEB 18 2015

Picklist Print

Wednesday, January 14, 2015 9:55:51 AM

Page 2

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3001

Manufactured No

Each

12.0000

1

646 3001

DAS

**

Lower Cutter Assy

46

9-89

Location

Loc Qty

Loc Code

CCK045

12

123145

1

124690

2

124731

2

124733

7

DAS
28
9-89

646.2910

Manufactured No

Each

1.0000

1

646 2910

DAS

**

Deflector

46

9-89

Location

Loc Qty

Loc Code

CCK050

1

120021

1

DAS
28
9-89

646.3810

Manufactured No

Each

24.0000

2

646 3810

DAS

**

Bracket

46

9-89

Location

Loc Qty

Loc Code

cck104

24

121817

10

123020

6

123683

4

124329

4

DAS
28
9-89

646.3510

Manufactured No

Each

13.0000

1

646 3510

DAS

**

Strut

46

9-89

Location

Loc Qty

Loc Code

cck101

13

120150

13

FEB 18 2015

DAS
28
9-89

DAS
28
9-89

Wednesday, January 14, 2015 9:55:53 AM

Shop Packet Print

Page 2

Picklist Print

Wednesday, January 14, 2015 9:55:53 AM

Page 3

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3511
646 3511 DAS
Strut 46
9-89

Manufactured No

Each 12.0000

**

68-6
90
SAD

Location

Loc Qty

Loc Code

cck102

12

120292

12

Each

12.0000

**

DAS
28
9-89

646.3512
646 3512
Strut

Manufactured No

Location

Loc Qty

Loc Code

cck102

12

126226

12

Each

15.0000

**

646.3513
646 3513
Strut

Manufactured No

Location

Loc Qty

Loc Code

cck102

15

110989

4

113944

1

126779

10

Each

2,973.000

**

NAS1149F0332P

Purchased

No

NAS1149F0332P
Washer

DAS
46
9-89

Location

Loc Qty

Loc Code

GA

222

122063

222

ST260a

2751

m130325

2000

m131026

751

**

FEB 18 2015
FEB 17 2015

68-6
90
SAD

DAS
28
9-89

Wednesday, January 14, 2015 9:55:57 AM

Shop Packet Print

Page 3

Picklist Print

Wednesday, January 14, 2015 9:55:57 AM

Page 4

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased No

Each 2,109.000

MS21042L3 DAS
Nut 46

9-89

Location	Loc Qty	Loc Code
FP001	467	
M130922	467	
ST305	1639	
M130799	39	
M131264	1600	
ST307	3	
123900	3	

DAS
03
9-89
DAS
28
9-89

646.3110

Manufactured No

Each 13.0000

646 3110 DAS
Channel 46
9-89

Location	Loc Qty	Loc Code
cck020	13	
122959	5	
126780	8	

DAS
03
9-89
DAS
28
9-89

646.3710

Manufactured No

Each 13.0000

646 3710 DAS
Doubler 46
9-89

Location	Loc Qty	Loc Code
CCK015	13	
113729	13	
	Each	17.0000

DAS
03
9-89
DAS
28
9-89

646.3210

Manufactured No

Each 17.0000

646 3210 DAS
Support 46
9-89

Location	Loc Qty	Loc Code
cck020	17	
124388	8	
126777	9	

FEB 17 2015
DAS
03
9-89
DAS
28
9-89
DAS
28
9-89

Wednesday, January 14, 2015 9:55:58 AM

Shop Packet Print

Page 4

Picklist Print

Wednesday, January 14, 2015 9:55:58 AM

Page 5

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3713 Manufactured No

Each 35.0000

1

646 3713

DAS
46
9-89

**

Gusset

Location

Loc Qty

Loc Code

cck103

35

DAS
28
9-89

120631

35

DAS
28
9-89

MS24694-S51

Purchased No

Each 298.0000

MS24694-S51

DAS
46
9-89

**

Screw

Location

Loc Qty

Loc Code

ST289

298

DAS
28
9-89

m130928

298

DAS
28
9-89

AN3-13A

Purchased No

Each 31.0000

AN3-13A

DAS
46
9-89

**

Bolt

Location

Loc Qty

Loc Code

CA

5

DAS
28
9-89

m129682

5

DAS
28
9-89

GA

20

m127070

20

ST349

6

m127070

6

AN3-4A

Purchased No

Each 351.0000

AN3-4A

DAS
46
9-89

**

Bolt

Location

Loc Qty

Loc Code

CA

108

DAS
28
9-89

m129682

108

FEB 17 2015

ST350

243

DAS
28
9-89

m129702

243

Wednesday, January 14, 2015 9:56:03 AM

Shop Packet Print

Page 5

Picklist Print

Wednesday, January 14, 2015 9:56:04 AM

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3811 Manufactured No

Each 38.0000

646 3811

DAS

46

Radius Block

9-89

**

DAS

28

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

cck104

38

107218

3

110717

20

122938

15

AN3-6A

Purchased No

Each 172.0000

AN3-6A

DAS

46

Bolt

9-89

**

DAS

28

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST349

172

M128739

72

M130466

100

MS24694-S55

Purchased No

Each 13.0000

MS24694-S55

DAS

46

Screw

9-89

**

DAS

28

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST289

13

m128401

13

646.3610

Manufactured No

Each 12.0000

646 3610

DAS

46

Filler

9-89

**

DAS

28

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

cck103

12

112887

2

124514

10

FEB 17 2015

Picklist Print

Wednesday, January 14, 2015 9:56:04 AM

Page 8

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3714 Manufactured No

646.3714

Gusset

DAS
46
9-89

Location

Loc Qty

Loc Code

cck103

36

**

DAS
03
9-89

DAS
28
9-89

120632

36

Each

1,232.000

**

DAS
03
9-89

MS20470AD5-6

Purchased No

MS20470AD5-6

RIVET

DAS
46
9-89

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

342

105433

342

Each

16.0000

**

DAS
03
9-89

DAS
28
9-89

646.3812

Manufactured No

646.3812

Gusset Bracket

DAS
46
9-89

Location

Loc Qty

Loc Code

cck104

16

16

Each

336.0000

**

DAS
28
9-89

AN3-3A

Purchased No

AN3-3A

Bolt

DAS
46
9-89

Location

Loc Qty

Loc Code

ST350

336

336

m129591

FEB 17 2015

DAS
03
9-89

DAS
28
9-89

Picklist Print

Wednesday, January 14, 2015 9:56:05 AM

Page 9

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3813 Manufactured No

Each 22.0000

1

DAS
CS
9-89

DAS
28
9-89

646 3813
Strut Bracket

DAS
46
9-89

**

Location	Loc Qty	Loc Code
cck104	22	
115021	4	
121503	10	
122968	4	
124265	4	

MS20470AD5-7 Purchased No

Each 608.0000

3

DAS
CS
9-89

DAS
28
9-89

MS20470AD5-7
Rivet

DAS
46
9-89

**

Location	Loc Qty	Loc Code
ST310	608	
123425	608	

MS21047-3 Purchased No

Each 98.0000

18

DAS
CS
9-89

DAS
28
9-89

MS21047-3
Nut Plate

DAS
46
9-89

**

Location	Loc Qty	Loc Code
ST303	98	
m130358	98	

CCR264SS3-02 Purchased No

Each 131.0000

36

DAS
CS
9-89

DAS
28
9-89

CCR264SS3-02
Rivet, Cherry

DAS
46
9-89

**

Location	Loc Qty	Loc Code
ST321	131	
M128879	131	

Wednesday, January 14, 2015 9:56:05 AM

Shop Packet Print

Page 9

Picklist Print

Wednesday, January 14, 2015 9:56:05 AM

Page 10

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

AN3-5A Purchased No

Each 266.0000

AN3-5A DAS
Bolt **46**
9-89

2

MM131420

DAS
CS
9-89

DAS
28
9-89

Location	Loc Qty	Loc Code
CA	151	
m129682	151	
FP001	69	
m130325	69	
GA	46	
m129507	46	

646.3715 Manufactured No

Each 21.0000

646 3715 DAS
Strut Doubler **46**
9-89

2

DAS
CS
9-89

DAS
28
9-89

Location	Loc Qty	Loc Code
cck103	21	
115101	1	
123469	12	
123700	8	

MS27039-1-12 Purchased No

Each 80.0000

MS27039-1-12
Screw

6

DAS
CS
9-89

DAS
28
9-89

Location	Loc Qty	Loc Code
ST285	80	
m128799	80	

646.3716 Manufactured No

Each 16.0000

646 3716 DAS
Gauge Bracket **46**
9-89

1

FEB 17 2015

DAS
CS
9-89
DAS
28
9-89

Location	Loc Qty	Loc Code
cck103	16	
120167	2	
122908	14	

Wednesday, January 14, 2015 9:56:05 AM

Shop Packet Print

Page 10

Picklist Print

Wednesday, January 14, 2015 9:56:05 AM

Page 11

Work Order ID: 128204

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutters

128204

646 4001

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS20426AD5-7

Purchased

No

Each

266.0000

2

MS20426AD5-7

DAS

46

RIVET

9-89

Location

Loc Qty

Loc Code

ST312

266

101340

266

Each

54.0000

2

2

DAS

66

9-89

DAS

28

9-89

MS24694-S54

Purchased

No

Each

54.0000

MS24694-S54

DAS

46

SCREW

9-89

Location

Loc Qty

Loc Code

ST289

54

m130928

54

Each

506.0000

4

DAS

66

9-89

DAS

28

9-89

MS27039-1-21

Purchased

No

Each

506.0000

MS27039-1-21

DAS

46

Screw

9-89

Location

Loc Qty

Loc Code

ST273A

495

m126349

100

m127904

395

ST284

11

124326

11

Each

282.0000

2

DAS

66

9-89

DAS

28

9-89

MS27039-1-20

Purchased

No

Each

282.0000

MS27039-1-20

DAS

46

Screw

9-89

Location

Loc Qty

Loc Code

ST284

282

124326

282

DAS

66

9-89

DAS

28

9-89

FEB 17 2015

Wednesday, January 14, 2015 9:56:06 AM

Shop Packet Print

Page 11

Picklist Print

Wednesday, January 14, 2015 9:56:06 AM

Page 12

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

Each

574.0000

22

MS27039-1-19

DAS

**

DAS

Screw

46

00

DAS

9-89

9-89

28

9-89

Location

Loc Qty

Loc Code

GA

32

m124326

32

ST273A

401

m127904

401

ST284

141

125654

5

m127904

136

Each

35.0000

**

DAS

00

9-89

646.3717

Manufactured

No

646 3717

DAS

DAS

Doubler

46

28

9-89

9-89

Location

Loc Qty

Loc Code

cck103

35

114916

5

120633

30

Each

22.0000

**

DAS

00

9-89

646.3718

Manufactured

No

646 3718

DAS

Custom Washer

46

9-89

Location

Loc Qty

Loc Code

cck104

22

110639

22

FEB 17 2015

DAS

28

9-89

Picklist Print

Page 13

Wednesday, January 14, 2015 9:56:06 AM

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3719 Manufactured No

Each 65.0000 2

646.3719 DAS
Doubler 46
9-89

**

DAS
66
9-89
DAS
28
9-89

Location	Loc Qty	Loc Code
cck104	34	
120338	14	
123589	20	
cck126	31	
120634	31	

MS27039-1-10 Purchased No

Each 753.0000 2

MS270.39-1-10 DAS
SCREW 46
9-89

**

DAS
66
9-89
DAS
28
9-89

Location	Loc Qty	Loc Code
GA	250	
m129541	250	
ST285	503	
m123522	60	
m128635	41	
m130358	402	

AN3-11A Purchased No

Each 579.0000 8

AN3-11A DAS
Bolt 46
9-89

**

DAS
66
9-89
FEB 17 2015

Location	Loc Qty	Loc Code
ST338a	579	
m125709	470	
m130005	109	

DAS
28
9-89

Picklist Print

Wednesday, January 14, 2015 9:56:06 AM

Page 14

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

600.0990 Purchased No

Each 5.0000

600 0990
MAGNABOND 6398 PART A

DAS
46
9-89

**

1

129878
129037

DAS
28
9-89

Location

Loc Qty

Loc Code

MF

5

M129818

5

Each

5.0000

**

1

129037
129878

DAS
28
9-89

600.0991

Purchased No

600 0991
MAGNOBOND 6398 PART B

DAS
46
9-89

Location

Loc Qty

Loc Code

MF

5

130685

5

Each

21.0000

**

17

DAS
28
9-89

Location

Loc Qty

Loc Code

cck017

10

m129767

10

cck018

11

m129749

6

m130388

5

f

18.0000

**

87

DAS
28
9-89

600.0129

Purchased No

600 0129
VHB TAPE 75935A651

DAS
46
9-89

Location

Loc Qty

Loc Code

CCK095

18

m127920

18

FEB 17 2015

Effect

DAS
28
9-89

Wednesday, January 14, 2015 9:56:06 AM

Shop Packet Print

Page 14

Picklist Print

Wednesday, January 14, 2015 9:56:06 AM

Page 15

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

600.1013

Purchased No

Each 1,000.000

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

DAS
46
9-89

Location

Loc Qty

Loc Code

CCK095

1000

6/15/2016

DAS
C3
9-89

DAS
28
9-89

646.3910

Manufactured No

Each 2.0000

646 3910

Shim

DAS
46
9-89

Location

Loc Qty

Loc Code

cck104

2

120237

2

Each

25.0000

DAS
C3
9-89

DAS
28
9-89

646.3911

Manufactured No

646 3911

Shim

DAS
46
9-89

Location

Loc Qty

Loc Code

cck104

25

107669

1

118824

12

123075

12

Each

4.0000

DAS
C3
9-89

DAS
28
9-89

646.3912

Manufactured No

646 3912

Shim

DAS
46
9-89

Location

Loc Qty

Loc Code

cck104

4

121870

4

DAS
C3
9-89

FEB 17 2015 DAS
28
9-89

Picklist Print

Wednesday, January 14, 2015 9:56:07 AM

Page 16

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3913 Manufactured No

Each 4.0000

646 3913

Shim

DAS
46
9-89

**

DAS
66
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck104

4

107550

4

Each

202.0000

AN3-12A

Purchased No

AN3-12A

Bolt

DAS
46
9-89

**

DAS
66
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

69

m129682

69

ST349

133

m130566

133

Each

67.0000

MS27039-1-16

Purchased No

MS27039-1-16

Screw

DAS
46
9-89

**

DAS
66
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST285

67

m130224

67

Each

64.0000

AN44-5A

Purchased No

AN44-5A

Eyebolt

DAS
46
9-89

**

DAS
66
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST339

64

113791

9

124241

25

m123900

20

m126193

10

FEB 17 2015

Picklist Print

Wednesday, January 14, 2015 9:56:07 AM

Page 17

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

AN665-34R Purchased No

AN665-34R **DAS 46**
Clevis 9-89

Each 24.0000 2 1

DAS

CS

9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST330

24

M126180

24

Each 202.0000

DAS

CS

9-89

DAS 28 9-89

AN4C7A Purchased No

AN4C7A **DAS 46**
BOLT 9-89

Location

Loc Qty

Loc Code

ST312A

100

m127363

100

ST345

102

m128634

102

Each 478.0000

DAS

CS

9-89

DAS 28 9-89

NAS1149F0432P Purchased No

NAS1149F0432P **DAS 46**
WASHER 9-89

Location

Loc Qty

Loc Code

st268

478

M128995

478

FEB 17 2015

Picklist Print

Wednesday, January 14, 2015 9:56:07 AM

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

3,572.000

MS21042L4

DAS
46
9-89

**

Locknut

Location

Loc Qty

Loc Code

DAS
66
9-89

DAS
28
9-89

FP001

42

m124231

42

GA

704

m127813

704

ST260a

2000

m130799

2000

ST305

826

426

426

m128300

8

m130922

392

AN316C4R

Purchased

No

Each

77.0000

AN316C4R

DAS
46
9-89

**

NUT

Location

Loc Qty

Loc Code

DAS
66
9-89

DAS
28
9-89

ST331

77

m12314

11

m124561

25

m127584

8

m127618

20

m127838

13

FEB 17 2015

Picklist Print

Wednesday, January 14, 2015 9:56:08 AM

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042-3 MS21042L3 Purchased No

Each 875.0000

MS21042-3

DAS
46
9-89

Nut / use MS21042L3

**

22
116549

DAS

66
9-89 DAS
28
9-89

Location

Loc Qty

Loc Code

CA	501	
M129682	501	
ST305	374	
M128770	274	
M129541	100	

MS27039-08-13 Purchased No

Each 479.0000

MS27039-08-13

DAS
46
9-89

Screw

**

21

DAS
66
9-89

Location

Loc Qty

Loc Code

ST273A	346	
124326	346	
ST281	133	
123352	39	
4067	73	
M123185	21	

DAS
28
9-89

MS21042-08 MS21042L08 Purchased No

Each 32.0000

MS21042-08

DAS
46
9-89

USE MS21042L08

**

2
130325
FEB 17 2015

DAS
66
9-89

Location

Loc Qty

Loc Code

ST304	25	
122815	25	
ST306	7	
123185	3	
123525	4	

DAS
28
9-89

Picklist Print

Wednesday, January 14, 2015 9:56:08 AM

Page 20

Work Order ID: 128204

128204

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P

Purchased

No

Each

4,968.000

41

NAS1149FN832P

**

Washer

DAS
C-8
3-89

Location

Loc Qty

Loc Code

ST260a

3600

st268

3600

1368

M130388

1368

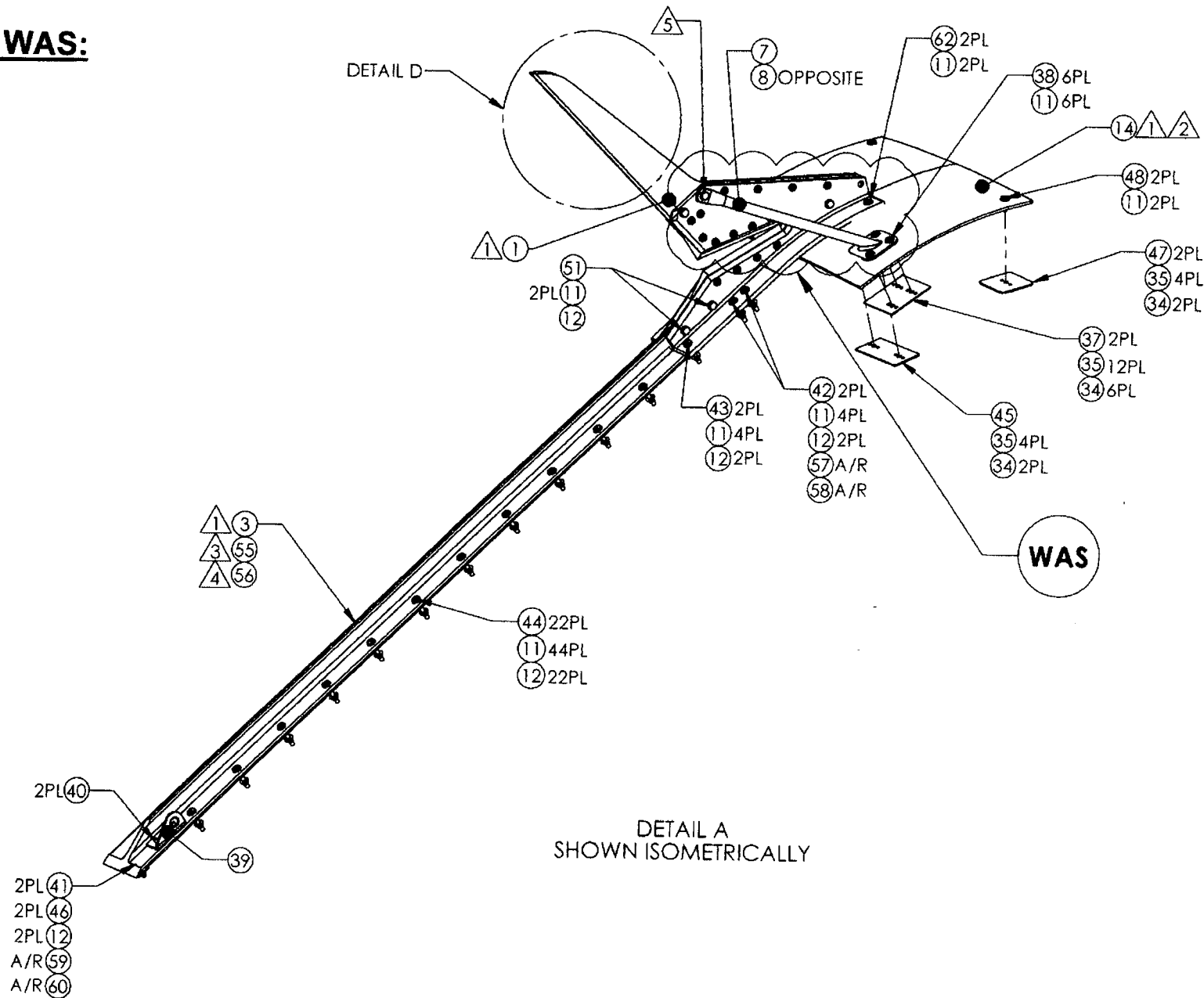
4

FEB 17 2015

DAS
28
9-89

APICAL INDUSTRIES, INC.		ENGINEERING CHANGE NOTICE NO. 04731				SHEET 1 OF 2	
		DWG NO. 646.4000		REV: A	PREPARED BY J. SOTO	DATE: 11/04/2014	EFFECT ON DWG ☒ INC. ☐ UNINC.
		DWG TITLE: AS350 CABLE CUTTERS KIT					
TRANSACTION CODES (TC): A-ADD R-REVISE C-CREATE D-DELETE		APPROVED BY: ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF. NEXT ORDER		
REASON: REVISED BOM. INCORPORATED ECN 03046 AND 03079.							
CONTROLLED COPY NOT FOR COMMENT NOTICE 128204_MLS 1501-13							
F/N	TC	PART NUMBER	QTY	DESCRIPTION		MATERIAL	SPECIFICATION
76	A	601.2764	4	4	WASHER	NAS1149FN832P	
75	A	601.2973	2	2	LOCKNUT	MS21042-08	
74	A	601.2988	2	2	SCREW	MS27039-0813	
73	A	601.2943	2	2	LOCKNUT	MS21042-3	
72	A	601.3128	2	2	NUT	AN316C4R	
71	A	601.3209	2	2	LOCKNUT	MS21042L4	
70	A	601.2638	4	4	WASHER	NAS1149F0432P	
69	A	601.2669	2	2	BOLT	AN4C7A	
68	A	601.3119	2	2	CLEVIS	AN665-34R	
67	A	601.3121	2	2	EYE BOLT	AN44-57	
66	A	650.9201	2	2	EYE BRACKET ASSY		
51	R	601.2926	10	10	BOLT	AN3-11A	
12	R	601.1624	53	61	LOCKNUT	MS21042L3	
11	R	601.1607	120	138	WASHER	NAS1149F0332P	
8	R	647.7703	2	2	STRUT ASSY		
7	R	647.0112	2	2	STRUT BRACKET		

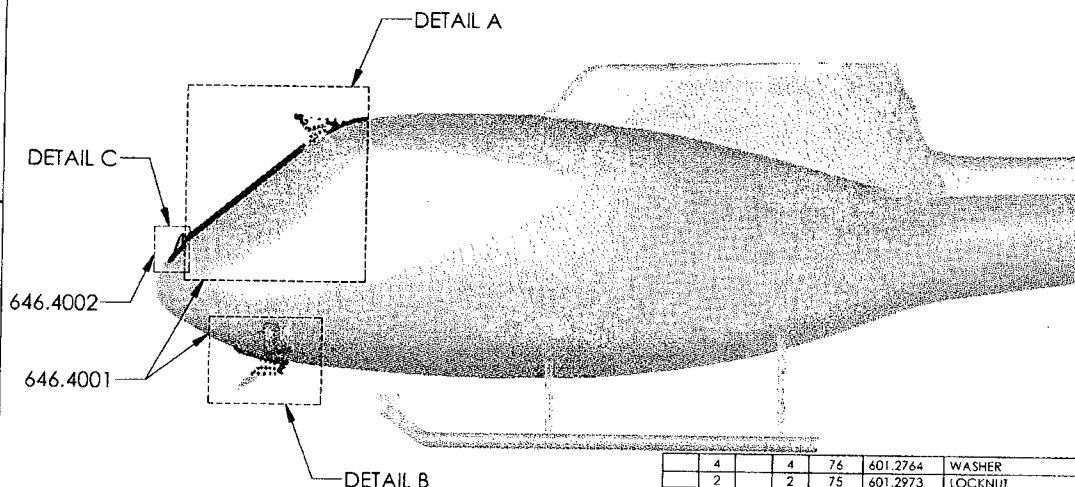
SHEET 2 WAS:



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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1



4	4	76	601.2764	WASHER	NAS1149F832
2	2	75	601.2973	LOCKNUT	MS21042-08
2	2	74	601.2988	SCREW	MS27039-0813
2	2	73	601.2943	LOCKNUT	MS21042-3
2	2	72	601.3128	NUT	AN316C4R
2	2	71	601.3209	LOCKNUT	MS21042-14
4	4	70	601.2638	WASHER	NAS1149F0432
2	2	69	601.2669	BOLT	AN4C7A
2	2	68	601.3119	CLEVIS	AN4665-34R
2	2	67	601.3121	EYE BOLT	AN44-5A
2	2	66	650.9201	EYE BRACKET ASSY	
REF	REF	REF	65	647.5701	GPS MOUNT KIT
			64	601.3151	WASHER
			63	601.2911	SCREW
			62	601.2637	SCREW
			61	601.2743	BOLT
			60	646.3913	SHIM
			59	646.3912	SHIM
			58	646.3911	SHIM
			57	646.3910	SHIM
			56	600.1013	PRIMER
4004	4003	4002	4001	FIND #	PART #
					DESCRIPTION
					MAT'L
					SPEC.

REV	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECHS 02/99 0231, 0271P & 02765	02/08/2010	P. BRAVO
B	INCORPORATED ECH 03/04, 03079 & 04731	11/01/2014	P. BRAVO

8 FT	8 FT	55	600.0129	VHB TAPE	
1	1	54	600.1012	SEALANT	PR-1425 CLASS B
1	1	53	600.0991	MAGNOBOND 4398 PART B	
1	1	52	600.0990	MAGNOBOND 4398 PART A	
10	10	51	601.2826	BOLT	AN3-11A
	2	50	646.3814	WIPER BRACKET	
	2	49	601.2910	SCREW	MS27039-1-18
2	2	48	601.1365	SCREW	MS27039-1-10
2	2	47	646.3719	DOUBLER	
	2	46	646.3718	CUSTOM WASHER	
1	1	45	646.3717	DOUBLER	
22	22	44	601.1948	SCREW	MS27039-1-19
2	2	43	601.1952	SCREW	MS27039-1-20
4	4	42	601.1956	SCREW	MS27039-1-21
2	2	41	601.2829	SCREW	MS24694554
2	2	40	601.2831	RIVET	MS20426A05-7
1	1	39	646.3716	GAUGE BRACKET	
6	6	38	601.1953	SCREW	MS27039-1-12
2	2	37	646.3715	STRUT DOUBLER	
2	2	36	601.2824	BOLT	AN3-5A
36	36	35	601.2277	RIVET	CCR2445-302
18	18	34	600.0795	NUTPLATE	MS21047-3
3	3	33	601.2565	RIVET	MS20470A05-7
1	1	32	646.3813	STRUT BRACKET	
4	4	31	601.2822	BOLT	AN3-3A
2	2	30	646.3812	GUSSET BRACKET	
8	8	29	601.2564	RIVET	MS20470A05-6
1	1	28	646.3714	GUSSET	
1	1	27	646.3610	FILLER	
1	1	26	601.2830	SCREW	MS24694555
2	2	25	601.2825	BOLT	AN3-6A
1	1	24	646.3811	RADIUS BLOCK	
1	1	23	646.3712	CLIP	
1	1	22	646.3711	CLIP	
8	8	21	601.2832	RIVET	MS20470A05-5
14	14	20	601.2020	RIVET	CR3213-5-3
10	10	19	601.2823	BOLT	AN3-4A
1	1	18	601.2827	BOLT	AN3-13A
5	5	17	601.2912	SCREW	MS24694551
1	1	16	646.3713	GUSSET	
1	1	15	646.3210	SUPPORT	
1	1	14	646.3710	DOUBLER	
1	1	13	646.3110	CHANNEL	
8	53	6	61	12	601.1624
18	120	16	138	11	601.1607
				10	646.3410
				9	646.3411
				8	647.7703
				7	647.0112
				6	646.3511
				5	646.3510
				4	646.3810
				3	646.2910
				2	646.3001
				1	646.3301
					646.4004
					646.4003
					646.4002
					646.4001
4004	4003	4002	4001	FIND #	PART #
					DESCRIPTION
					MAT'L
					SPEC.

QTY

NEXT ASSY (S)

ORIGINAL DATE
(MM-DD-YY) 08-27-08
DRAWN BY
S. HUNT
CHECKED BY
P. BRAVO
DRAWING APPROVAL
DATE 08-27-08
CONTRACT NO.

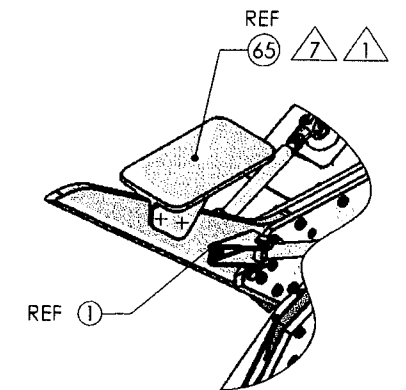
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS ± .01
3 PLACE DECIMALS ± .005
ANGLES ± .5°

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

AS350 CABLE CUTTERS KIT

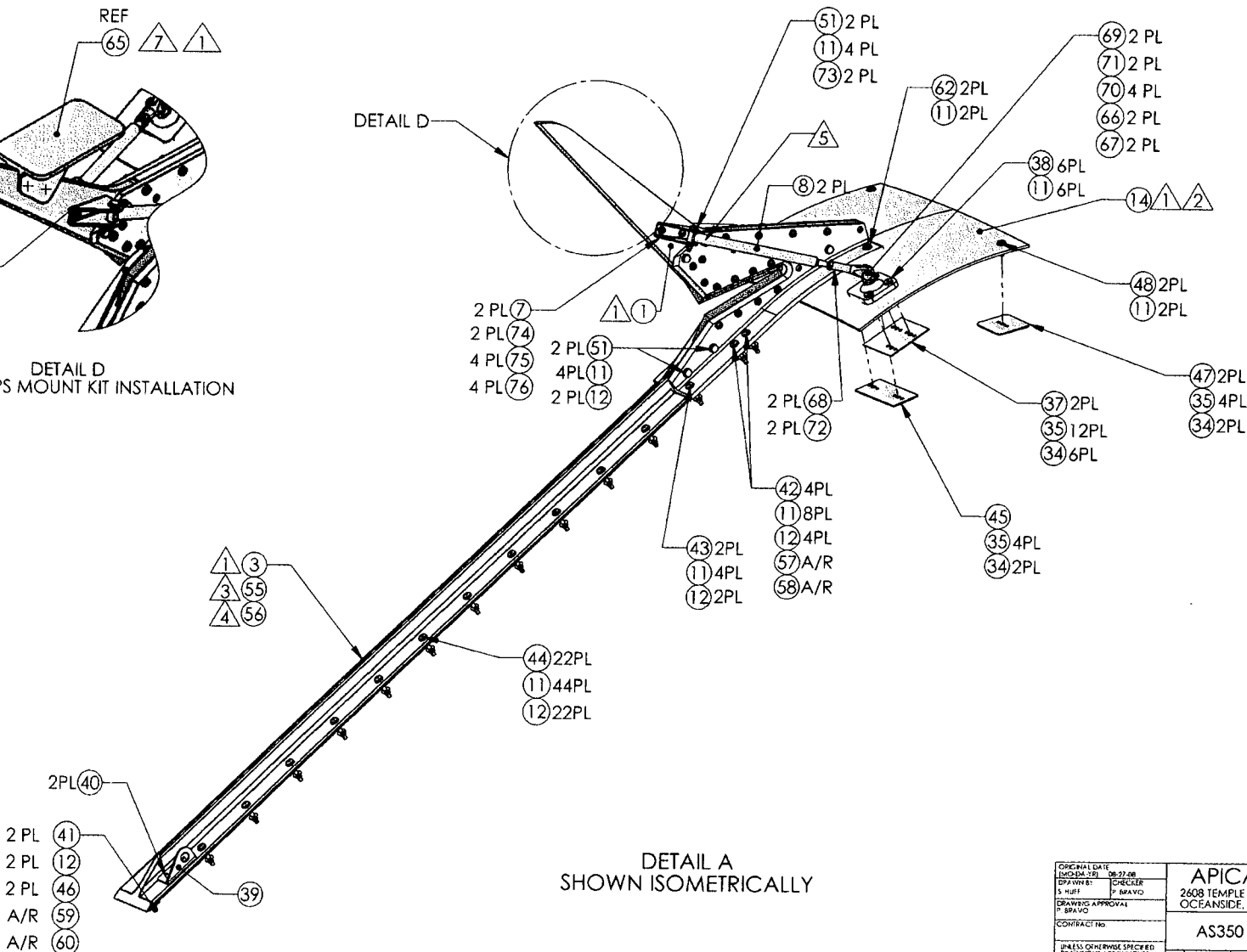
REV 1 OF 4
SCALE NONE
SHEET 1 OF 4

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DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

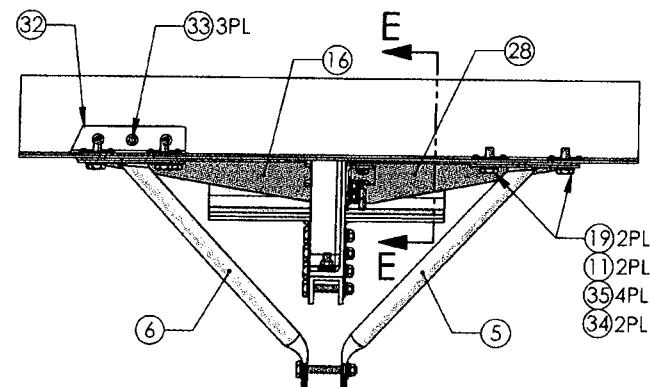
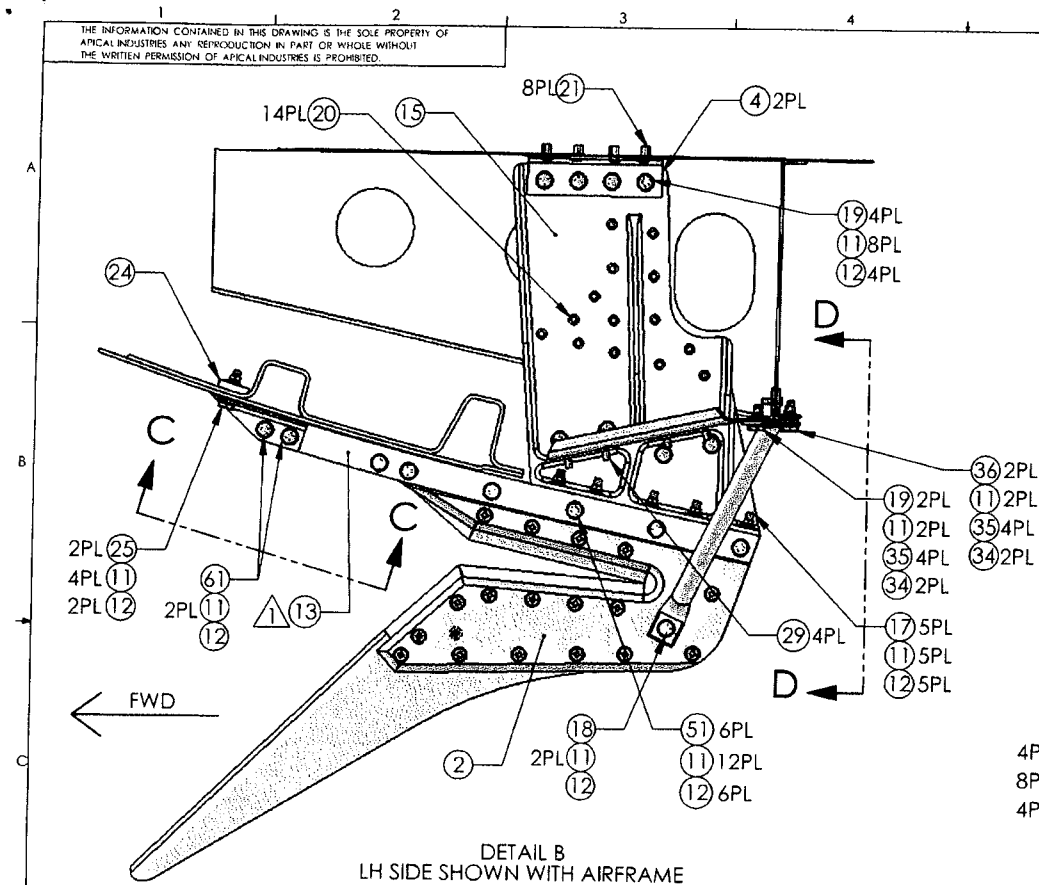
DETAIL D



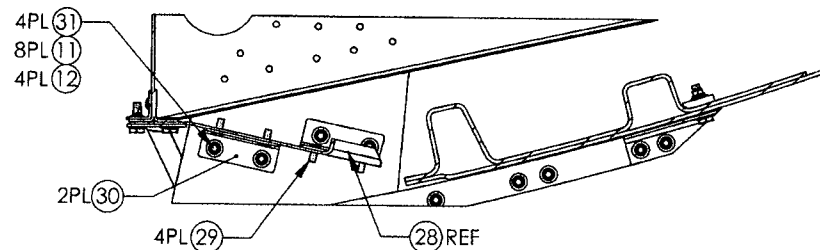
DETAIL A
SHOWN ISOMETRICALLY

ORIGINAL DATE 08-27-08		APICAL INDUSTRIES	
DRAWN BY: S. HUFF		2608 TEMPLE HEIGHTS DR.	
CHECKED BY: P. BRAVO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL: P. BRAVO		AS350 CABLE CUTTERS KIT	
CONTRACT NO.		REV. 8	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SHEET 2 OF 4	SCALE: NONE

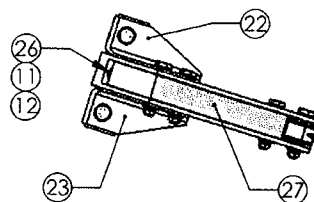
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

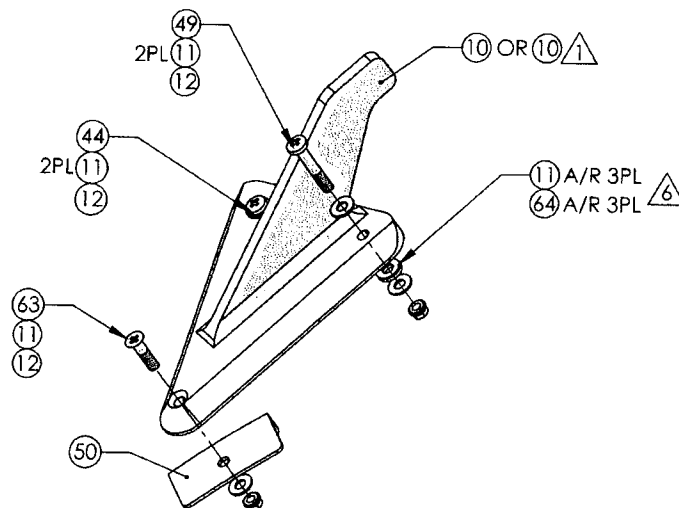


SECTION C-C

ORIGINAL DATE BAU-DA-YES	05-27-08	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING BY C. WHEELEY	CHECKED S. WHEELEY		
DATE 05-27-08	BY P. BRAVO	AS350 CABLE CUTTERS KIT	
CONFIRMING NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1. FRACTIONAL DIMENSIONS ±.01 2. DECIMAL DIMENSIONS ±.005 3. HOLE DIMENSIONS ±.005 4. ANGLES ±.5°		SIZE CASE COLOR DWG. NO. 07M26 646.4000	REV B
SCALE		NONE	1 SHEET 3 OF 4

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (MO-DA-YR) 08-27-08		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY S. HUI	CHECKED P. BRAYO		
DRAWING APPROVAL P. BRAYO 08-27-08		AS350 CABLE CUTTERS KIT	
CONTRACT NO.		SCALE NONE	SHEET 4 OF 4
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°			
SMT	CAGE CODE B 07M26	DWG. NO. 646.4000	REV. 3

REFERENCE ONLY

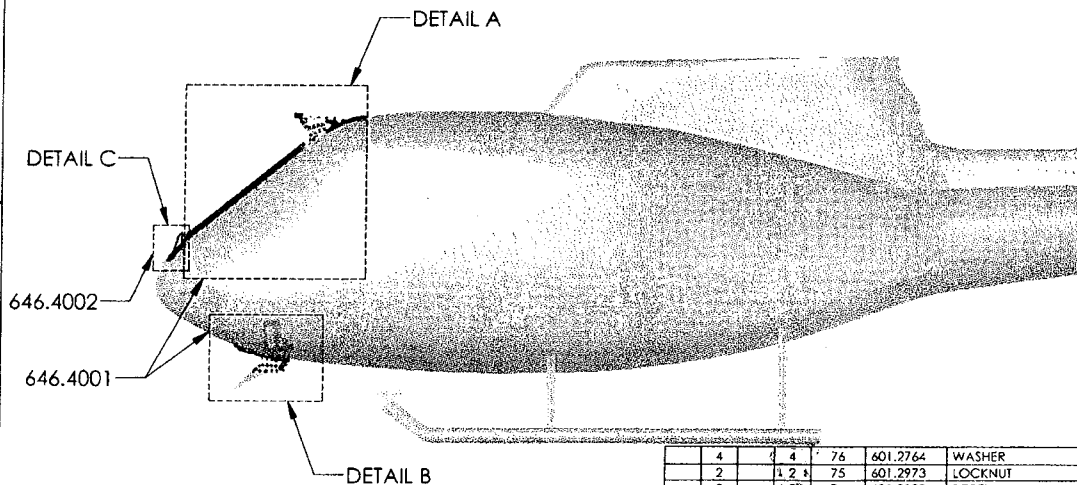
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46
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FEB 27 2015

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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1



4	4	76	601.2764	WASHER	NAST1499F832
2	12	75	601.2973	LOCKNUT	MS27039-08-3
2	2	74	601.2988	SCREW	MS27039-08-3
2	2	73	601.2943	LOCKNUT	MS27042-3
2	2	72	601.3128	NUT	AN318C4R
2	2	71	601.3209	LOCKNUT	MS27042-3
4	4	70	601.2638	WASHER	NAST1499F832
2	2	69	601.2669	BOLT	AN4C7A
2	2	68	601.3119	CLEVIS	AN465-34R
2	2	67	601.3121	EYE BOLT	AN44-5A
2	2	66	650.9201	EYE BRACKET ASSY	
2	2	65	647.5701	GPS MOUNT KIT	
2	2	64	601.3151	WASHER	NAST1499F832
2	2	63	601.2911	SCREW	MS24694553
2	2	62	601.2637	SCREW	MS27039-1-16
2	2	61	601.2763	BOLT	AN3-12A
1	1	60	646.3913	SHIM	
4	4	59	646.3912	SHIM	
1	1	58	646.3911	SHIM	
4	4	57	646.3910	SHIM	
5	5	56	600.1013	PRIMER	

REV.	DESCRIPTION	DATE	APPROVED
1	INCORPORATED ECH 0219, 0231, 0271 & 0274	02/08/2010	F. BRAVO
2	INCORPORATED ECH 0304, 0307 & 0471	11/04/2014	F. BRAVO

QTY	ORIGINAL DATE	DESCRIPTION	MATL	SPEC.
1	08-27-08	SEALANT		
1	08-27-08	MAGNABOND 6398 PART B		
1	08-27-08	MAGNABOND 6398 PART A		
10	08-27-08	BOLT		
2	08-27-08	WIPER BRACKET		
2	08-27-08	SCREW		
2	08-27-08	SCREW		
2	08-27-08	DOUBLER		
2	08-27-08	CUSTOM WASHER		
1	08-27-08	DOUBLER		
22	08-27-08	SCREW		
2	08-27-08	SCREW		
4	08-27-08	SCREW		
2	08-27-08	SCREW		
2	08-27-08	RIVET		
1	08-27-08	GAUGE BRACKET		
6	08-27-08	SCREW		
2	08-27-08	STRUT DOUBLER		
2	08-27-08	BOLT		
36	08-27-08	RIVET		
18	08-27-08	NUTPLATE		
3	08-27-08	RIVET		
1	08-27-08	STRUT BRACKET		
4	08-27-08	BOLT		
2	08-27-08	GUSSET BRACKET		
8	08-27-08	RIVET		
1	08-27-08	GUSSET		
1	08-27-08	FILLER		
1	08-27-08	SCREW		
2	08-27-08	BOLT		
1	08-27-08	RADIUS BLOCK		
1	08-27-08	CLIP		
1	08-27-08	CLIP		
8	08-27-08	RIVET		
14	08-27-08	RIVET		
10	08-27-08	BOLT		
1	08-27-08	BOLT		
5	08-27-08	SCREW		
1	08-27-08	GUSSET		
1	08-27-08	SUPPORT		
1	08-27-08	DOUBLER		
1	08-27-08	CHANNEL		
8	08-27-08	LOCKNUT		
18	08-27-08	WASHER		
1	08-27-08	LH WIPER DEFLECTOR		
1	08-27-08	RH WIPER DEFLECTOR		
2	08-27-08	STRUT ASSY		
2	08-27-08	STRUT BRACKET		
1	08-27-08	STRUT		
1	08-27-08	STRUT		
2	08-27-08	BRACKET		
1	08-27-08	DEFLECTOR		
1	08-27-08	LOWER CUTTER ASSY		
1	08-27-08	UPPER CUTTER ASSY		
X	08-27-08	646.4004		
X	08-27-08	646.4003		
X	08-27-08	646.4002		
X	08-27-08	646.4001		

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AS350 CABLE CUTTERS KIT

SHEET 1 OF 4